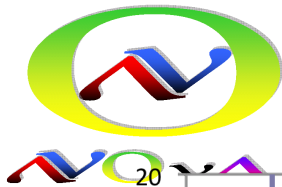




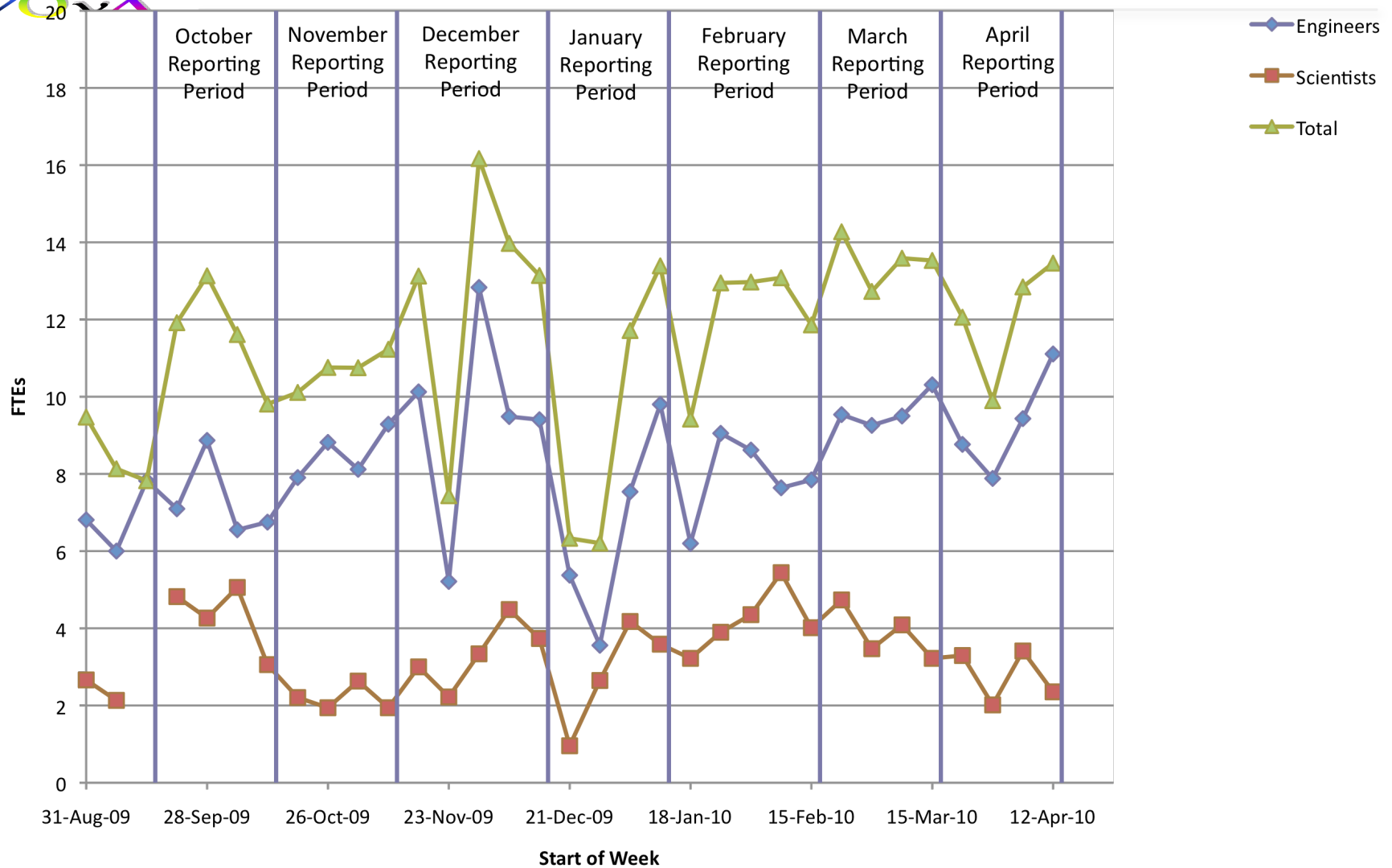
Accelerator & NuMI Upgrade Resource Update

Paul Derwent

27 April 2010



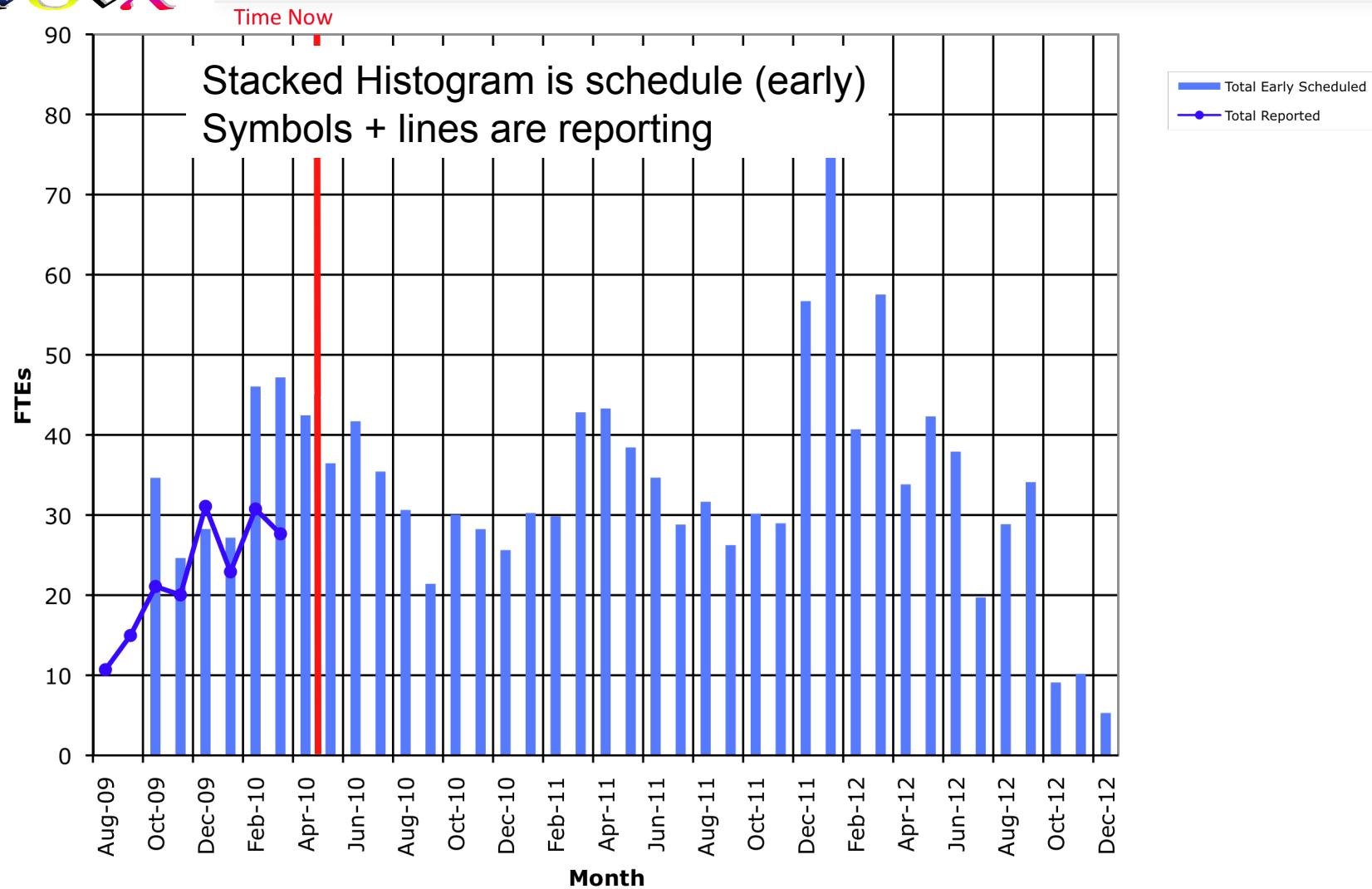
Engineers & Scientists FTE by week



FTE := 34 hours/week



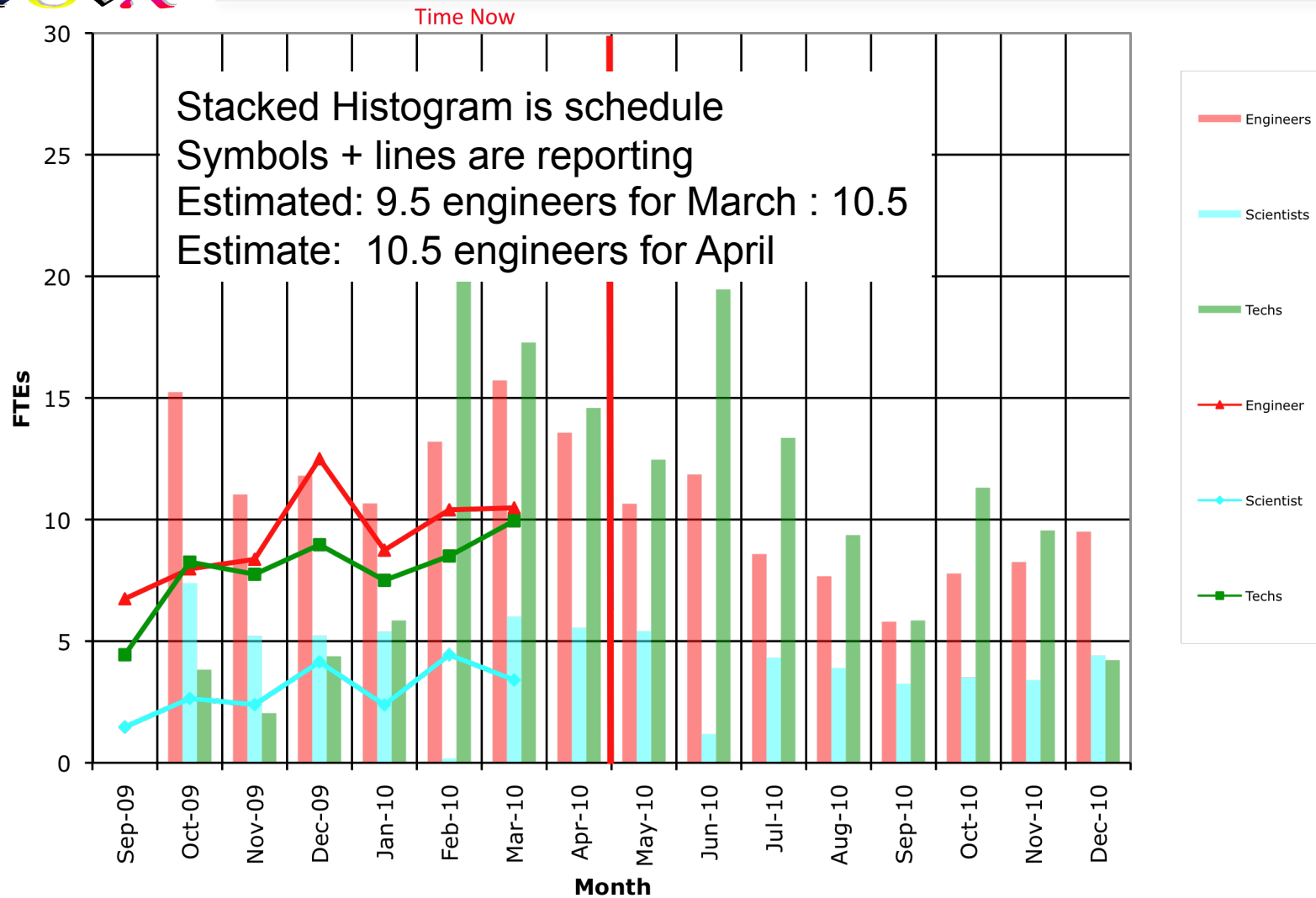
ANU Resource Requirements



FTE := 147.3 hours/month



ANU Resource Requirements

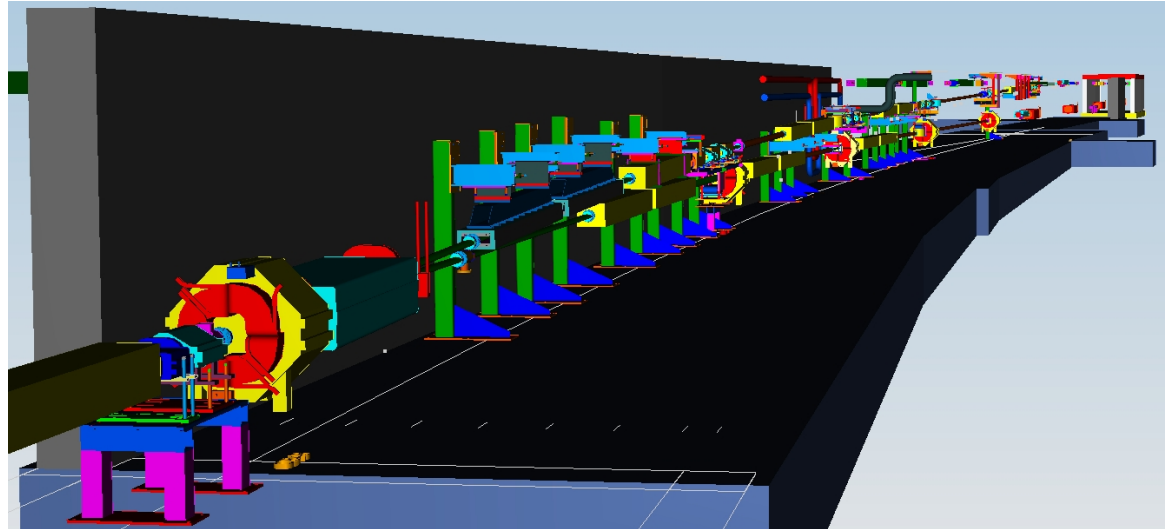


FTE := 147.3 hours/month



Technical Progress

- Installation planning: 3d model of injection line
 - Stands coming along
 - PDS magnet PO issued

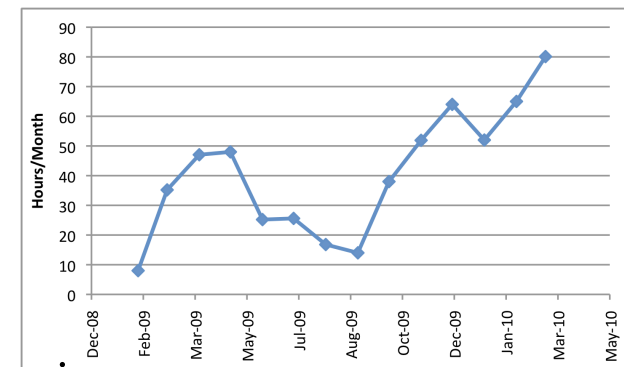


- Good progress on target chase cooling:
 - Stripline cooling, forced air cooling
- Parts for MI Inj prototype magnet, PS, pulser coming in
- Accord with IHEP on baffle/target design & construction
 - 3 baffles to be delivered by Feb 2011: early but confident in design
 - Target design to be complete this fall



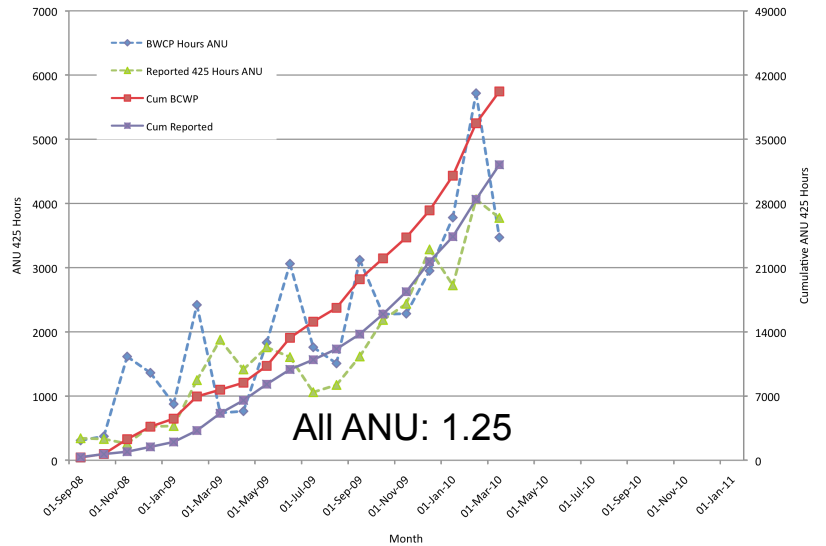
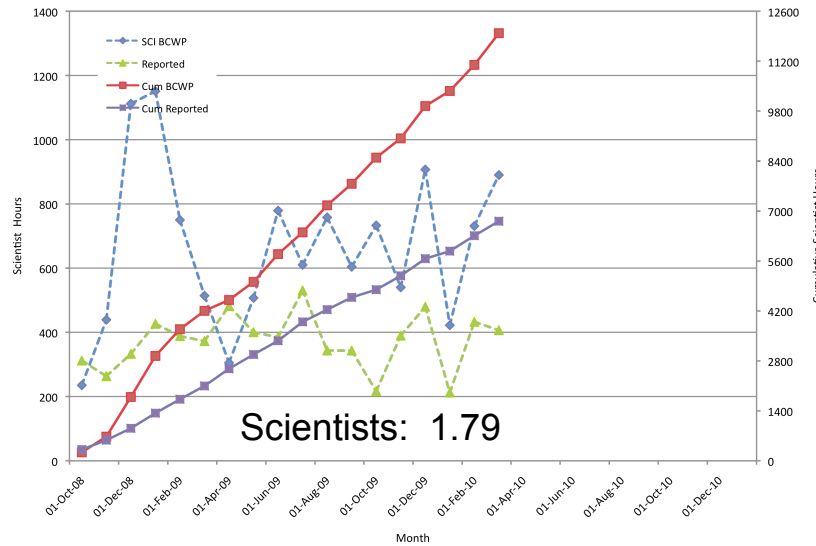
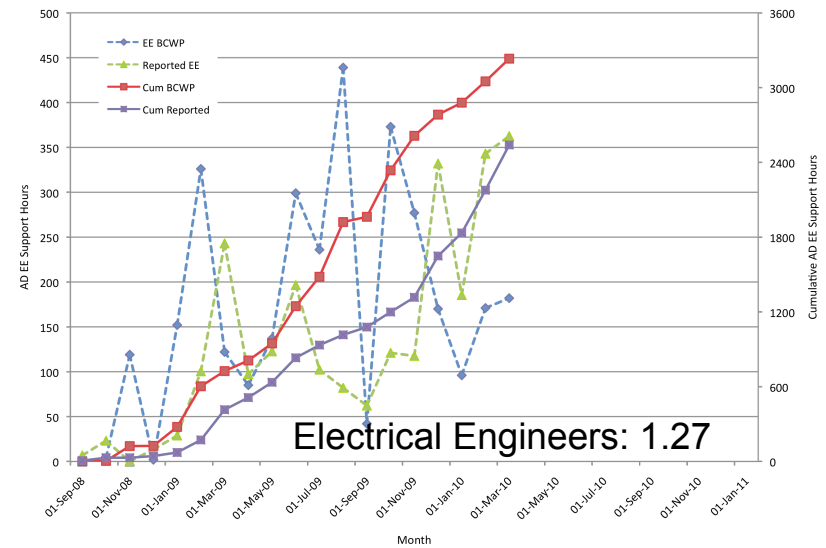
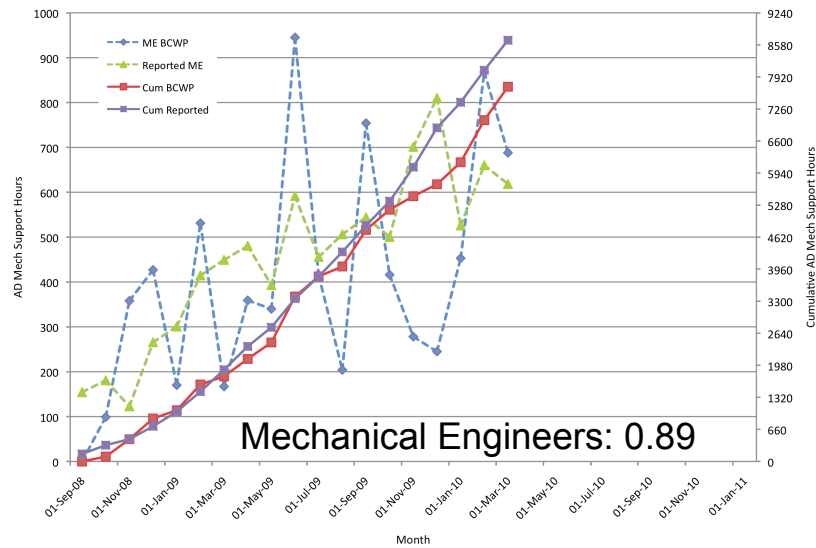
Technical comments

- PFL frames & kicker load resistor parts
 - PO's placed, delivery slower than expected
 - Have techs available to do the fabrication but don't have the parts!
- Update the TeV Re-use list:
 - Adding TeV BPM echoteks (the pbar capabilities of the system)
 - 60 of the 140 in the TeV
 - Adding VME processors
 - 12 of the 24 in the TeV
- Engineering for RR 53 MHz
 - Increasing (mechanical)
 - RF Engineer assignment made and getting going





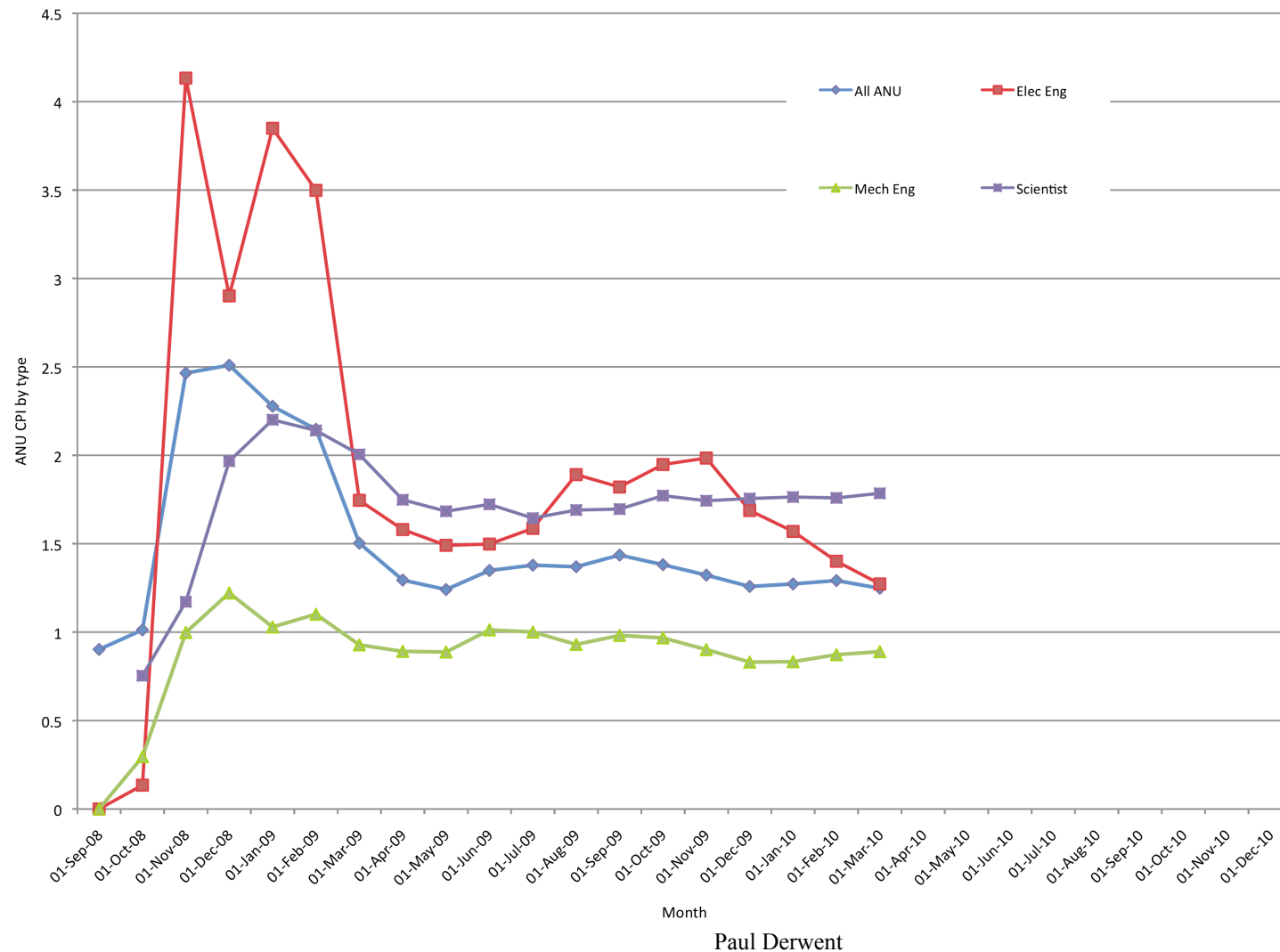
Resource Productivity





Labor CPI

- 1.25 (hours), 1.16 (\$) through March





Milestones

- Accomplished: reported at last PMG

1.0 -- ANU Planning, Engineering & Design					Time Now - 01Apr10	
1.0.1.1.6.3	RR 53 Mhz RF Design Review Complete	01Mar10	28Jan10	L.5	▼	★-22d
1.0.3.2.5.1	NuMI Target, Baffle & Carrier Initial Design Review Complete	15Mar10	19Apr10	L.4		★25d ▼

- Missed: with projected finish dates
 - not impacting critical path
 - Following up to keep in front of problems

1.0 -- ANU Planning, Engineering & Design					Time Now - 01Apr10	
1.0.3.2.5.9	NuMI Hadron Monitor Initial Re-design Complete	22Jun10	06Mar09	L.5	▼	▲-326d
1.0.3.1.5.3	NuMI Profile Monitor Technical Design Review Complete	25Jun10	19Feb10	L.5		▼ ▲-88d
1.0.3.3.5.3	NuMI Target Chase Cooling Design Complete	14Apr10	02Mar10	L.5		▼ ▲-31d
1.0.1.1.6.5	RR Beamline Modifications Design Review Complete	16Jun10	08Mar10	L.5		▼ ▲-72d
2.0 -- ANU Construction						
2.0.4.4.3.8	RR Inj & GC Install 3 Spare PFL Frames in MI-39	01Apr10	08Apr09	L.5	▼	▲-246d
2.0.4.4.3.11	RR Inj GC Bumper PS Design Review	23Jul10	22May09	L.5	▼	▲-293d
2.0.4.4.1.2	Off Project: Gap Clearing Kicker System Ready for Installation	01Apr10	01Mar10	L.5		▼ ▲-23d



Summary

- Resources being tracked
 - Labor CPI remains positive: 1.16 (\$), 1.25 (hours) through 'March'
 - Resolve/understand conflicts (operations, LBNE) before they arise
- Scheduled ready for shutdown:
 - 21 Dec 2011: slipped two weeks since last Month (6 Dec 2011)
 - RR 53 MHz RF fabrication task critical path
 - 44 days of float to 1 Mar 2012 (55 days last month)